



**Preparation of substituted pyrrolo[2,3-c]pyridine-2-carboxamides and thieno[2,3-c]pyridine-2-carboxamides as AMPK inhibitors.**

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#### AMPK INHIBITORS

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The 5'-AMP-activated protein kinase AMPK functions as a master switch to maintain cellular and whole-body energy homeostasis and abnormal activity profiles of AMPK may cause pathological disorders. The present invention relates to a series of compounds (I) based on a pyrrolo[2,3-c]pyridine and a thieno[2,3-c]pyridine scaffold as AMPK inhibitors. In particular, the present invention relates to the synthesis of such compounds and the medical use of such compounds.

